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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,360	09/08/2003	Michael Y. Wen	2000.110A	9508
34477 Exxon Mobil U	7590 06/16/200 Instream	EXAMINER		
Research Company			SINGH, PREM C	
P.O. Box 2189 (CORP-URC-			ART UNIT	PAPER NUMBER
Houston, TX 7		1797		
			MAIL DATE	DELIVERY MODE
			06/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Ī	Application No.	Applicant(s)		
	10/657,360	WEN, MICHAEL Y.		
	Examiner	Art Unit		
	PREM C. SINGH	1797		

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	orrespondence add	ress
THE REPLY FILED 20 May 2008 FAILS TO PLACE THIS APPI	ICATION IN CONDITION FOR AL	LOWANCE.	
 Since reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance, (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: 	the same day as filing a Notice of a replies: (1) an amendment, affidavitial (with appeal fee) in compliance FR 1.114. The reply must be filed	Appeal. To avoid abar t, or other evidence, v with 37 CFR 41.31; o	vhich places the r (3) a Request
a) The period for reply expiresmonths from the mailing			
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire Is Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	date of the final rejection	on.
Extensions of time may be obtained under 37 CFR 1.136(a). The date		36(a) and the annronriat	e extension fee
have been filled is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any samed patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL.	ension and the corresponding amount of hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropri- nally set in the final Office	ate extension fee te action; or (2) as
2. The Notice of Appeal was filed on . A brief in comp	liance with 37 CFR 41.37 must be t	iled within two month	s of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
<u>AMENDMENTS</u>			
 The proposed amendment(s) filed after a final rejection, to (a) They raise new issues that would require further core (b) They raise the issue of new matter (see NOTE belowed). 	nsideration and/or search (see NOT		cause
 (c) ☐ They are not deemed to place the application in bet appeal; and/or 	ter form for appeal by materially rec	lucing or simplifying t	he issues for
(d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	ected claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).			
4. The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment (PTOL-324).
5. Applicant's reply has overcome the following rejection(s):			
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		•	
 For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov 		be entered and an e	xplanation of
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed: Claim(s) objected to:			
Claim(s) rejected: 13-41.			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 			
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea	l and/or appellant fail	s to provide a
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.
The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:
12. Note the attached Information Disclosure Statement(s).	PTO/SB/08) Paper No(s).		
13. Other:			
/Glenn A Caldarola/ Acting SPE of Art Unit 1797			

Continuation of 11, does NOT place the application in condition for allowance because: The Applicant argues that first of all McKinney fails to teach or suggest the process as disclosed in the claims of the application. Second, Applicants rebut the Examiner's argument that "McKinney teaches that it may be desired to send the hydrogen containing gas to the cracking step." Third, McKinney is not combinable with either of Khan or Comi. For at least these reasons and the previously provided reasons, Applicants respectfully request allowance of claims 13-18, 20-21, 24-27, and 34-41.

The Applicant's argument is not persuasive because McKinney discloses steps (a) and (b) of claim 13 (See McKinney, column 4, lines 28-41 and claims 1-10). McKinney does not specifically disclose step (c) it, a stabilization of quenched oil protinc Comi discloses stabilization of cracked product as per claim 13 (c) (See Gomi, column 3, lines 10-30). It is to be noted that the examiner quotes from McKinney, "Hydrodesulfurization effluent may be flashed, IF DESIRED, prior to thermal cracking" (McKinney; column 12, lines 31-32). McKinney further discloses that hydrodesulfurization effluents comprise hydrogen (See McKinney; column 14, lines 39-42, in other words, if hydrodesulfurization effluent is not flashed, hydrogen will necessarily go to the cracking step, It is further to be noted that McKinney claim 16 reads. The process of claim 1, wherein hydrogen produced in the cracking zone is recycled to the hydrodesulfurization zone" (Column 17, lines 3-5). Comi and Khan substantiate step (c) of the claimed invention which is not specifically disclosed by McKinney, Thus, one skilled in the art would combine the three inventions to achieve the claimed invention.

The Applicant argues that McKinney uses hot solids instead of gas for cracking.In contrast, the application provides a process wherein "heavy oil is rapidly cracked and vaporized none it contacts hot syngas [and] the majority of the heavy oil in the duction nozzles goes through gas phase cracking reactions." Para. [0059]. The process of McKinney heats the oil using hot solids, while the process of the invention heats the oil using gas. Claim 13 of the application discloses thermal cracking in the presence of a hydrogen containing gas and claim 15 of the application states that the thermal cracking reaction." The Examiner has not addressed these differences between the application and the prior art. For at least these reasons, McKinney fails to teach or suggest the thermal cracking step of the process of the present invention and claims 13 and 15 are patentiable over McKinney.

The Applicant's argument is not persussive because limitations in para [0059] have not been claimed. The claim(s) only require "cracking in presence of hydrogen-containing ass." McKinney invention fully discloses this limitation. It is also to be noted that McKinney uses diluent gas, like steam, during cracking (See claim 2, column 16, lines 23-24). Thus, McKinney should necessarily achieve "predominantly ass phase thermal cracking reaction",

The Applicant argues that McKinney is not combinable with either Khan or Gomi.

The Applicant's argument is not persuasive because as discussed earlier, McKinney discloses steps (a) and (b) and the other two references only substantiate McKinney for step (c). Thus, the three arts are combinable.

/Glenn A Caldarola/ Acting SPE of Art Unit 1797